

FIGURE 1A

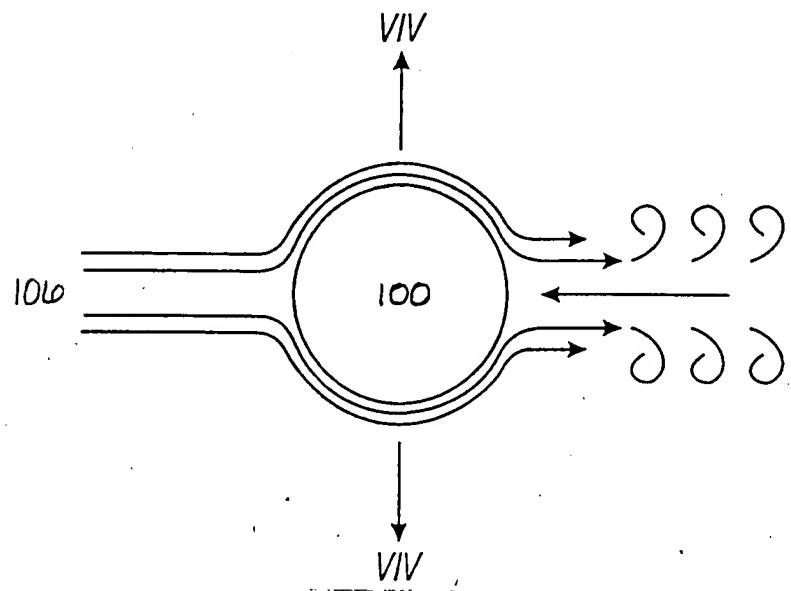


FIGURE 1B

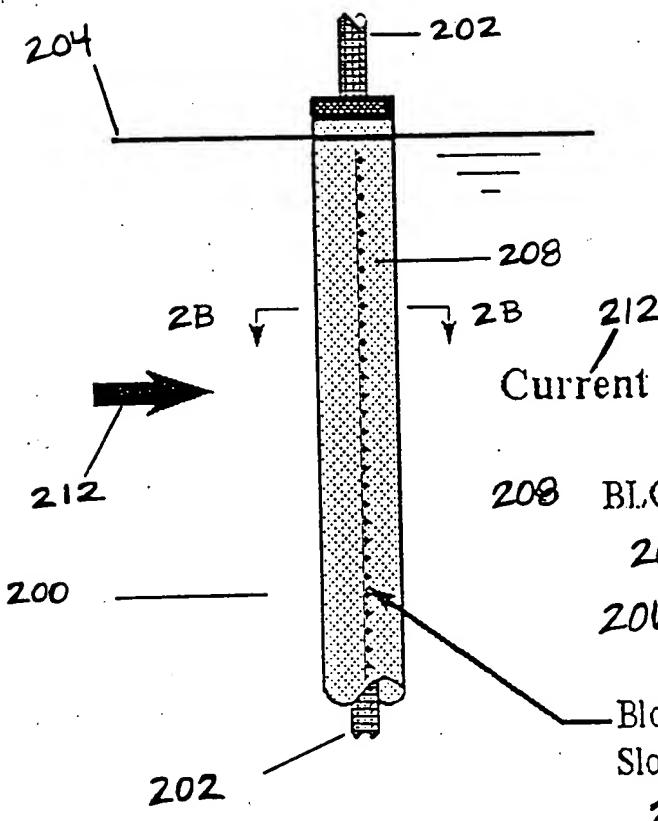


FIGURE 2A

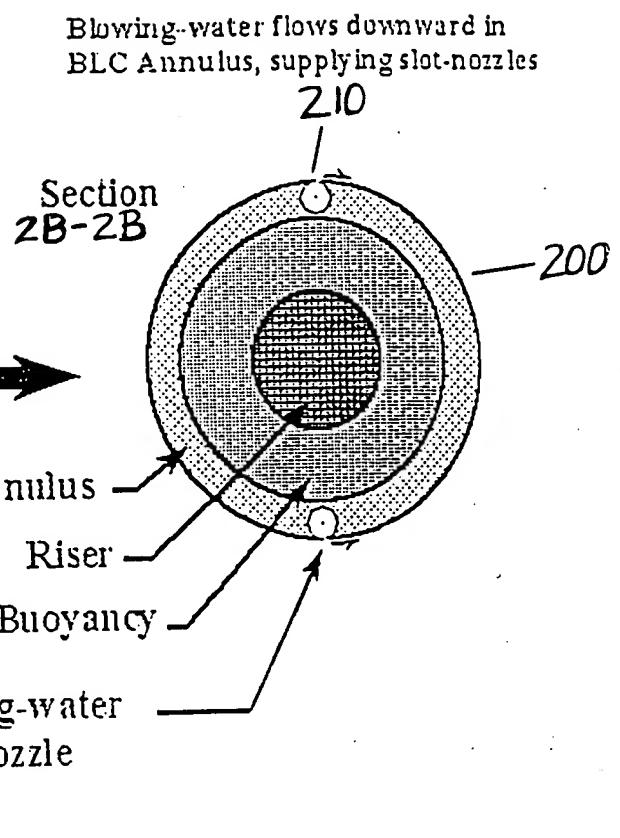


FIGURE 2B

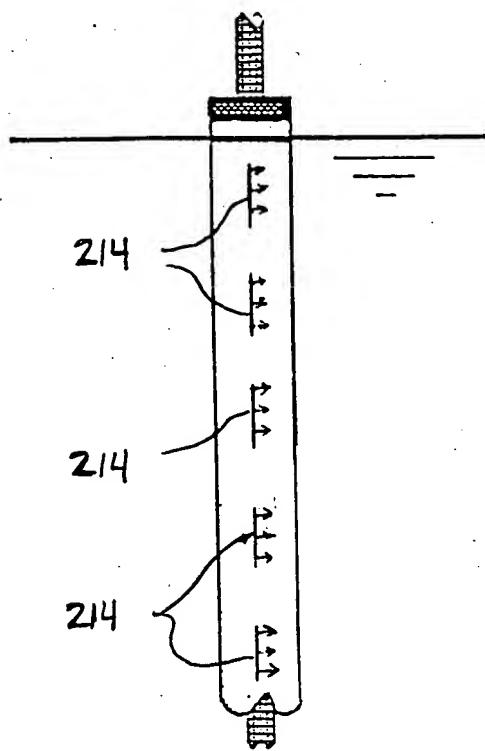


FIGURE 2C

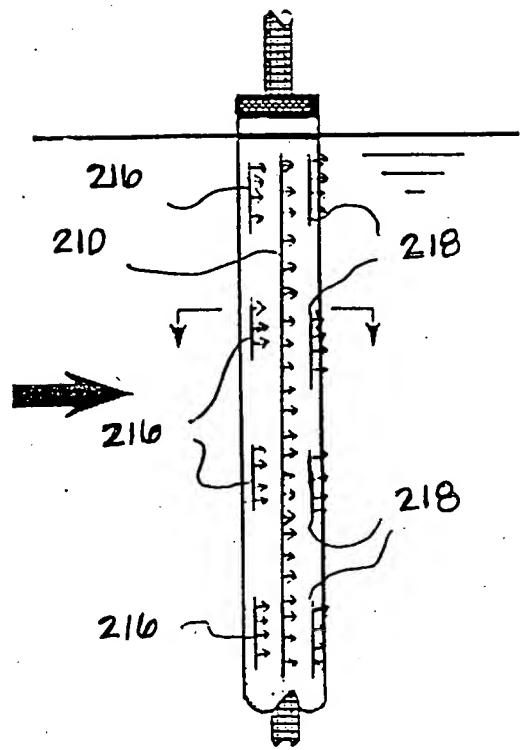


FIGURE 2D

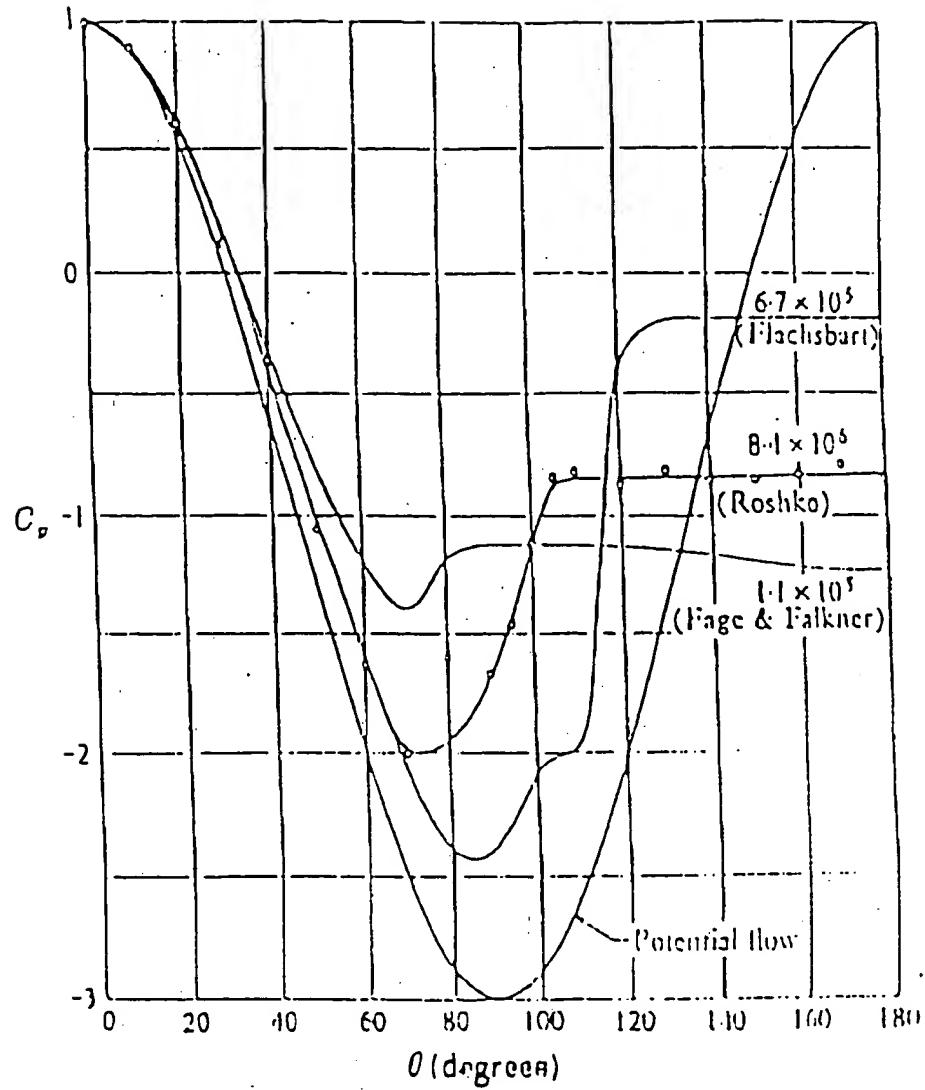


FIG. 3 Pressure Distribution on a circular cylinder

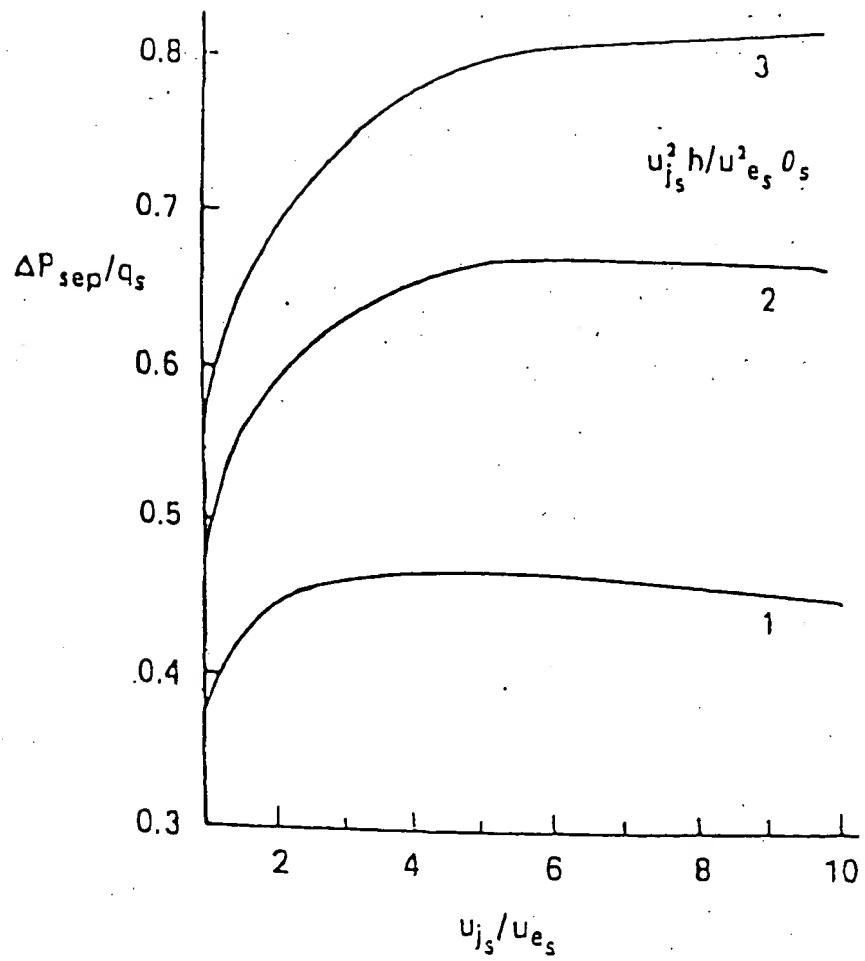
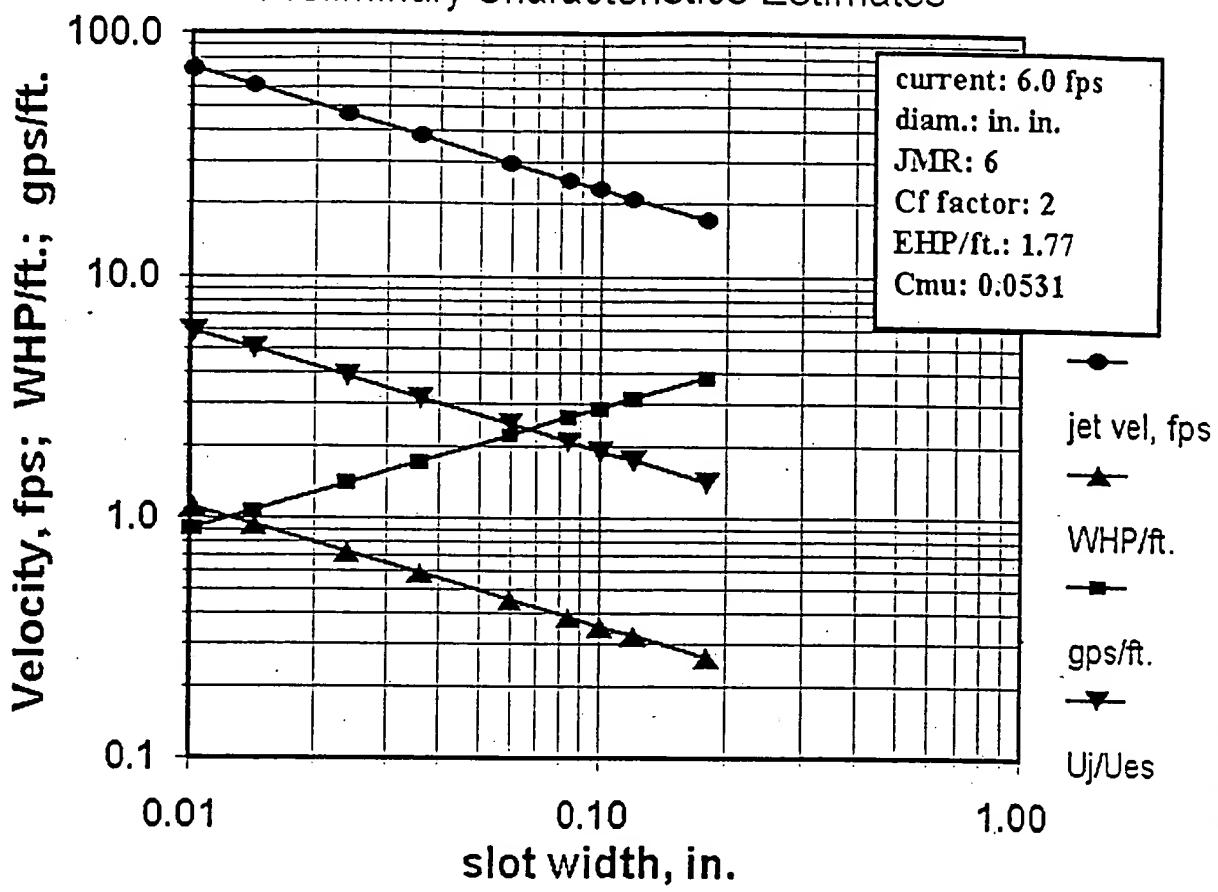


FIG. 4. Pressure rise to separation
(From Hubbart & Bangert, 1970).

FIG. 5 Drilling Riser BLC System
Preliminary Characteristics Estimates



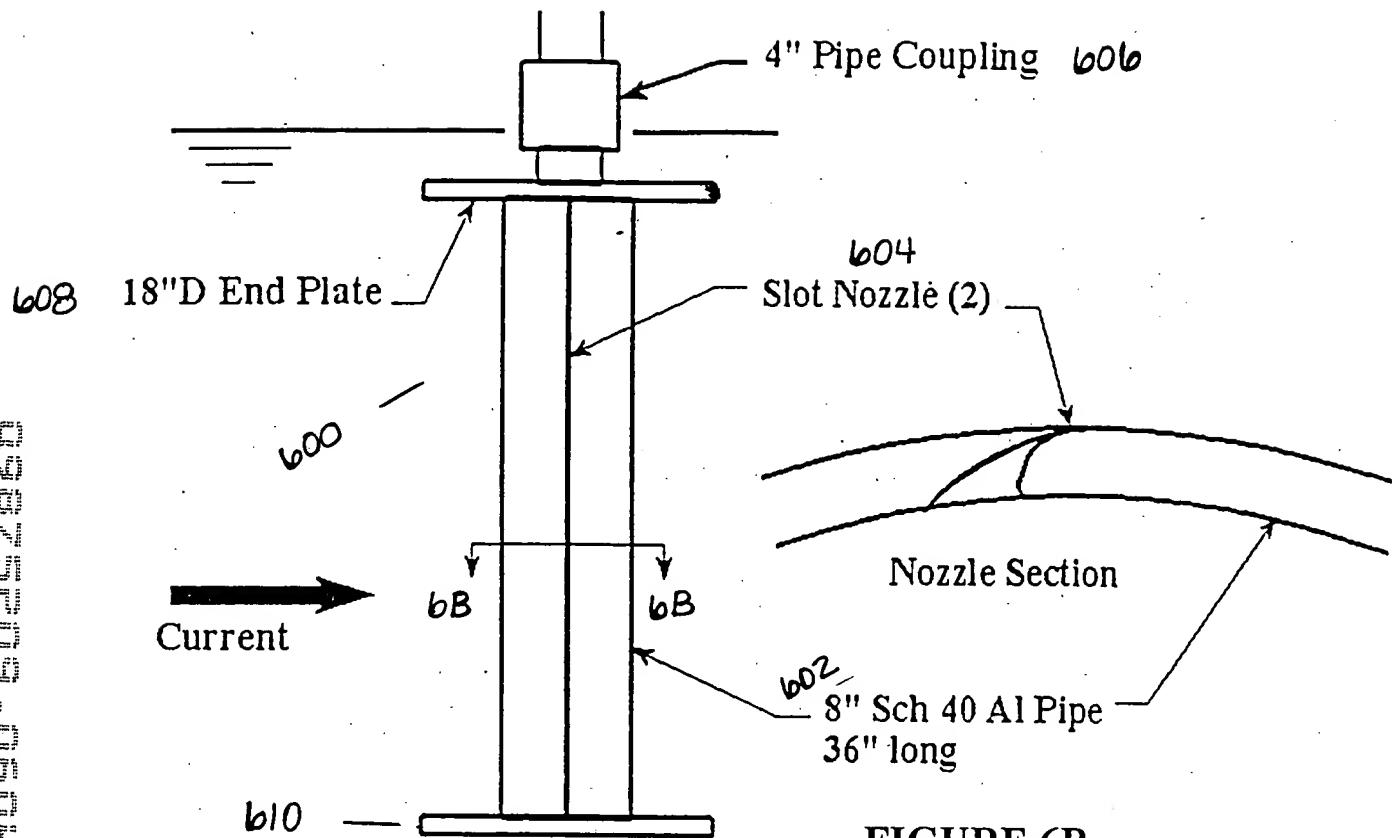


FIGURE 6B

FIGURE 6A

FIGURE 7. VIV Lateral Force PSD; 5 fps

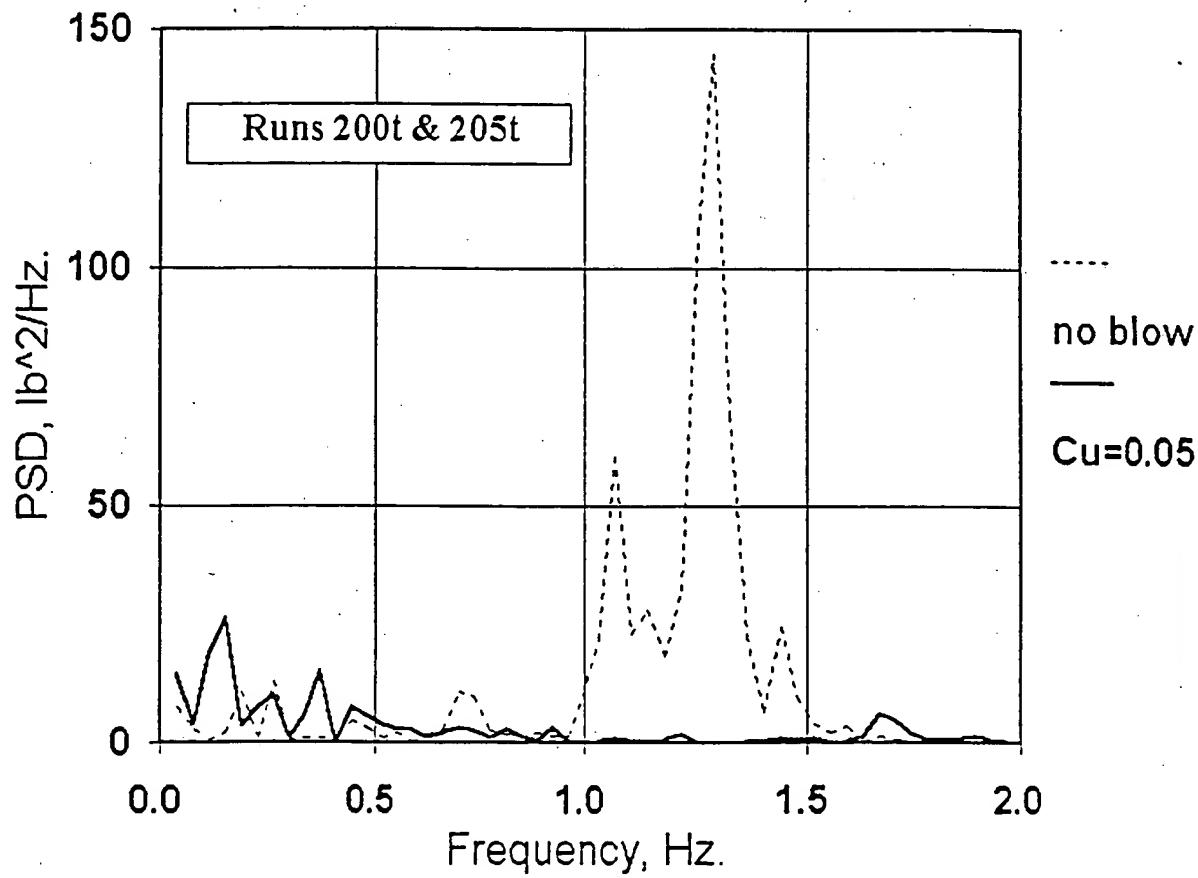
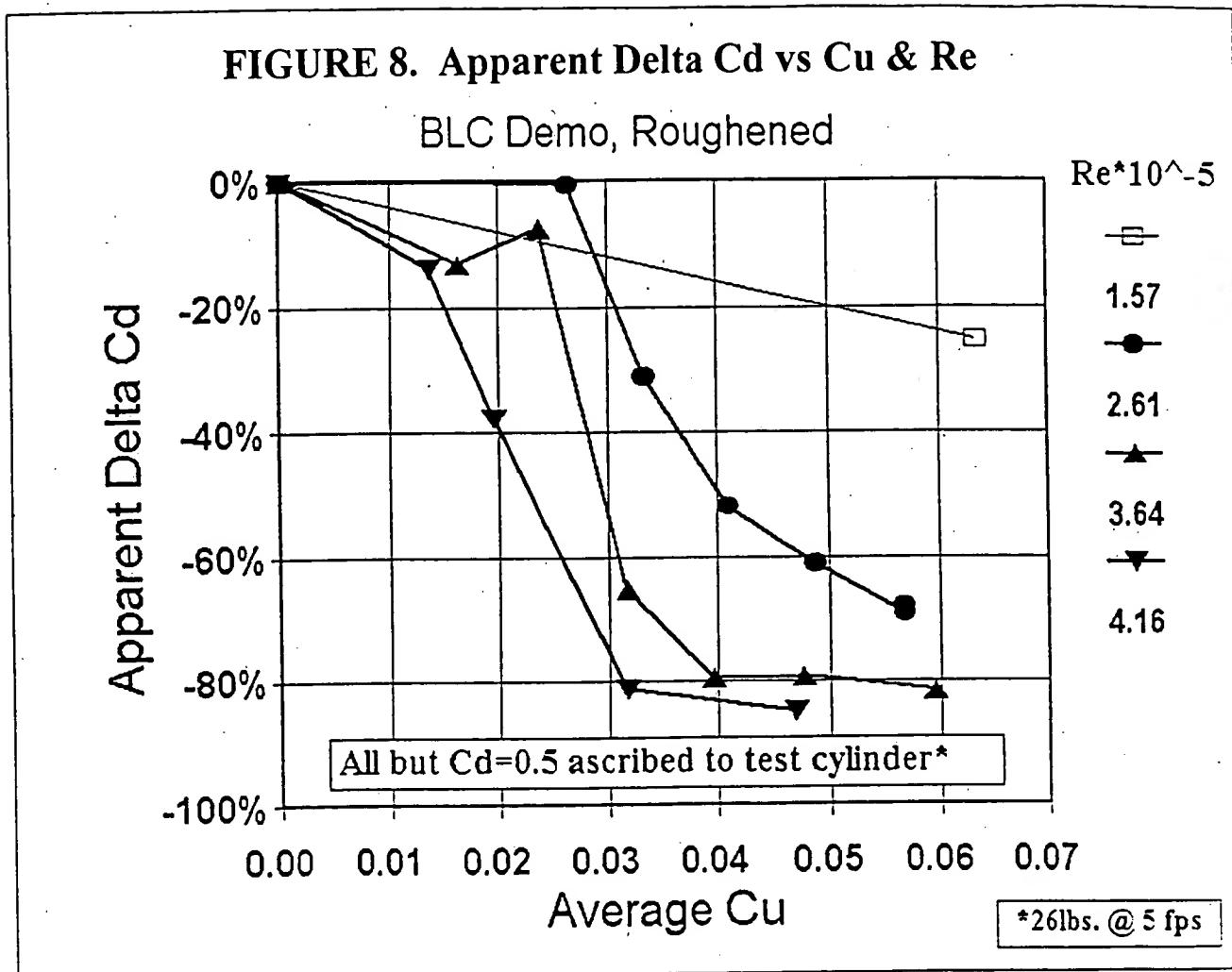


FIGURE 8. Apparent Delta Cd vs Cu & Re



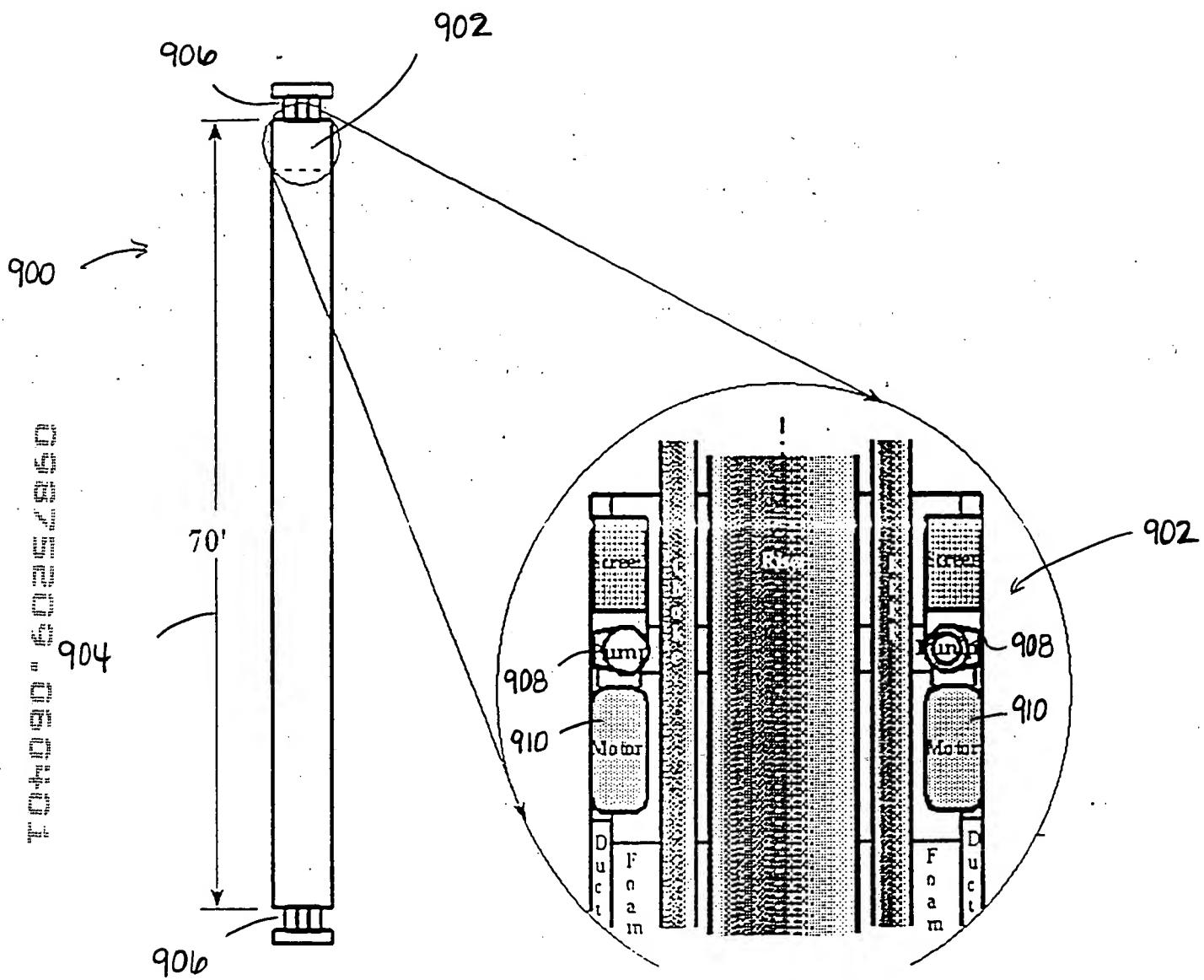


FIGURE 9A

FIGURE 9B

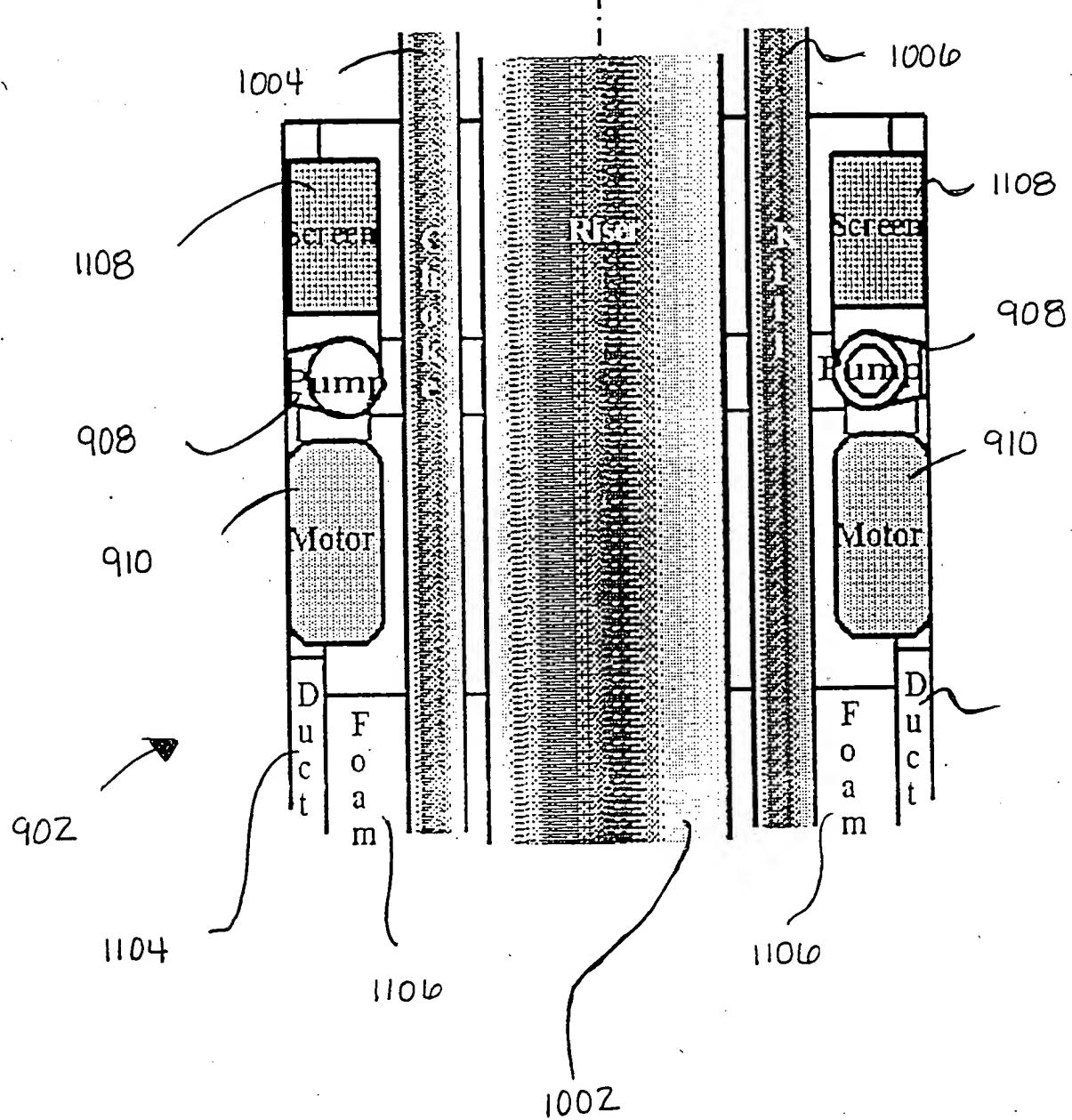


FIGURE 10

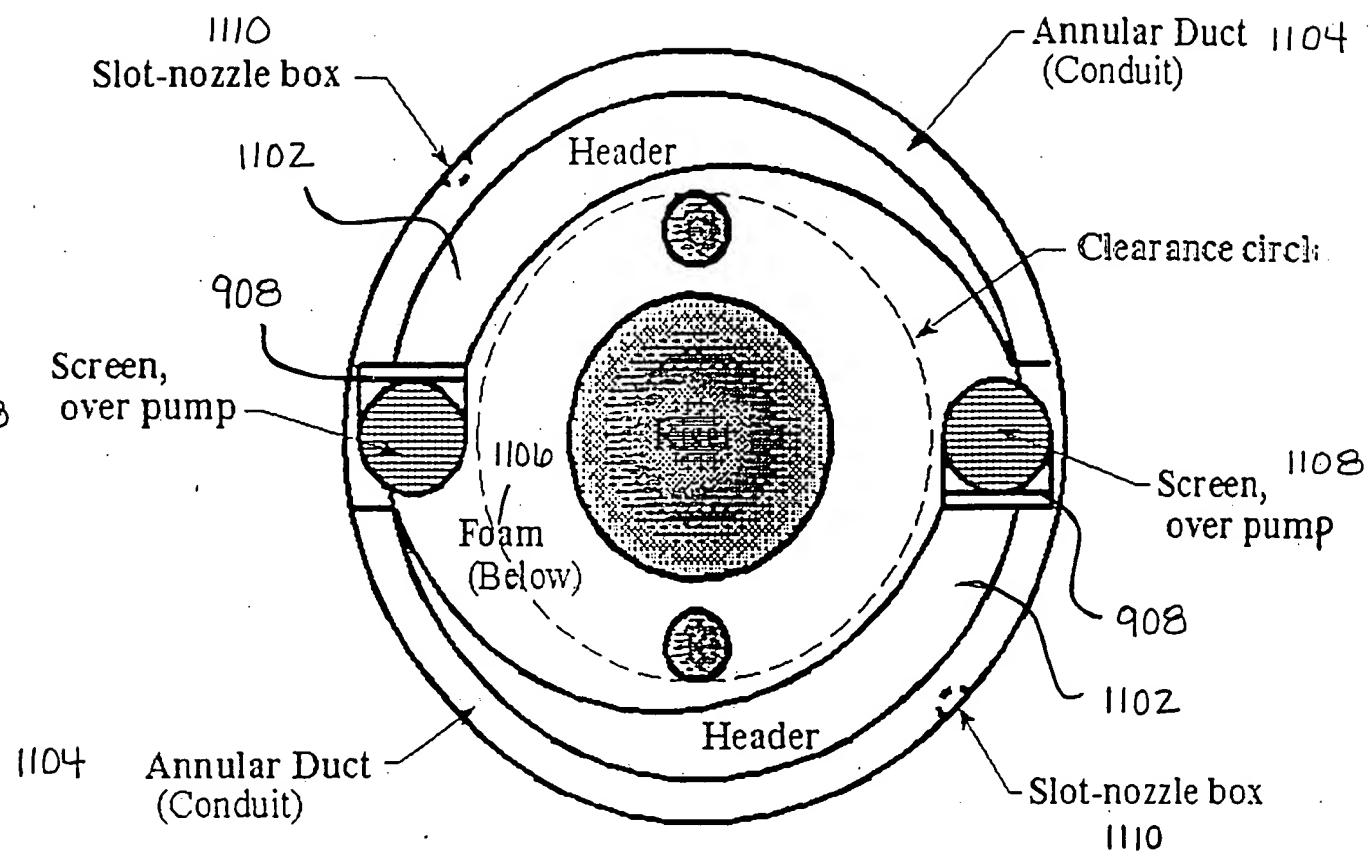


FIGURE 11

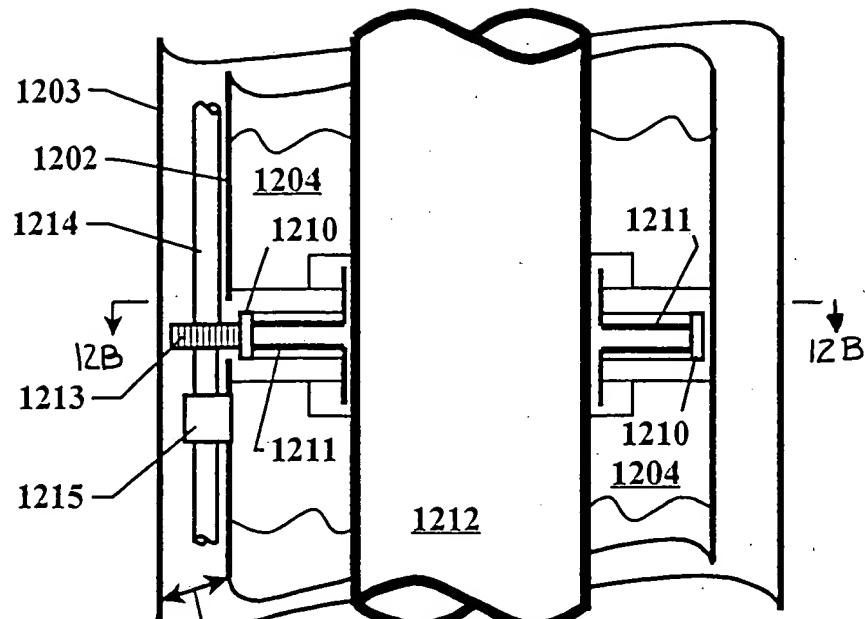


FIGURE 12A

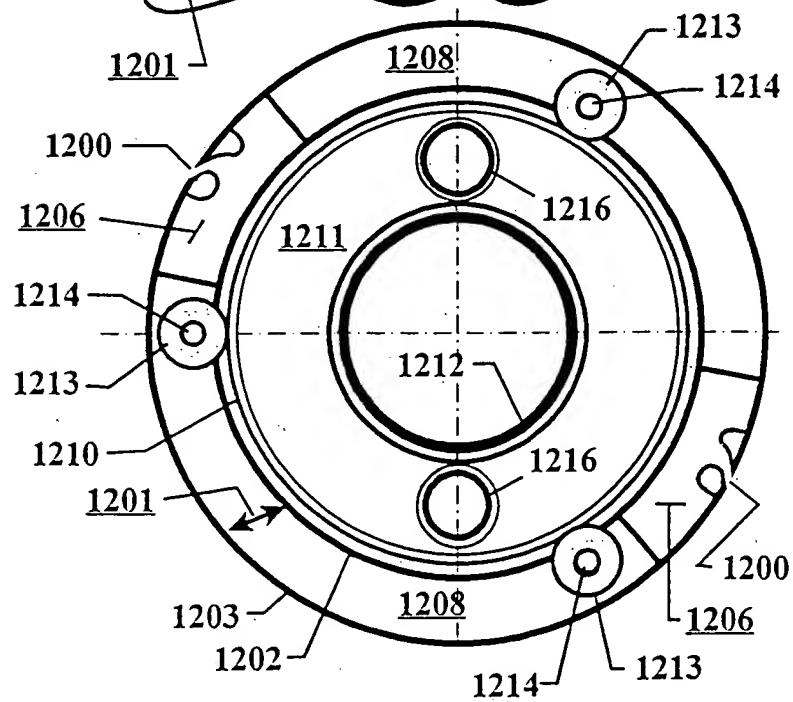


FIGURE 12B

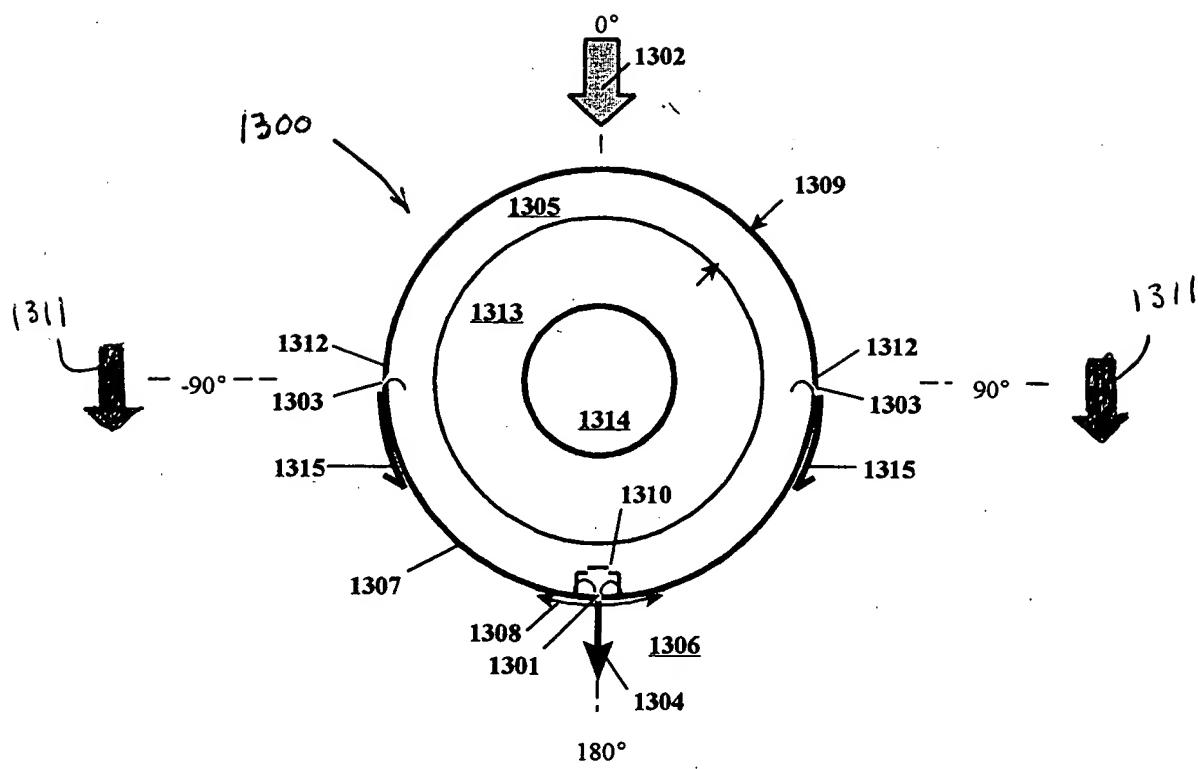


Figure 13

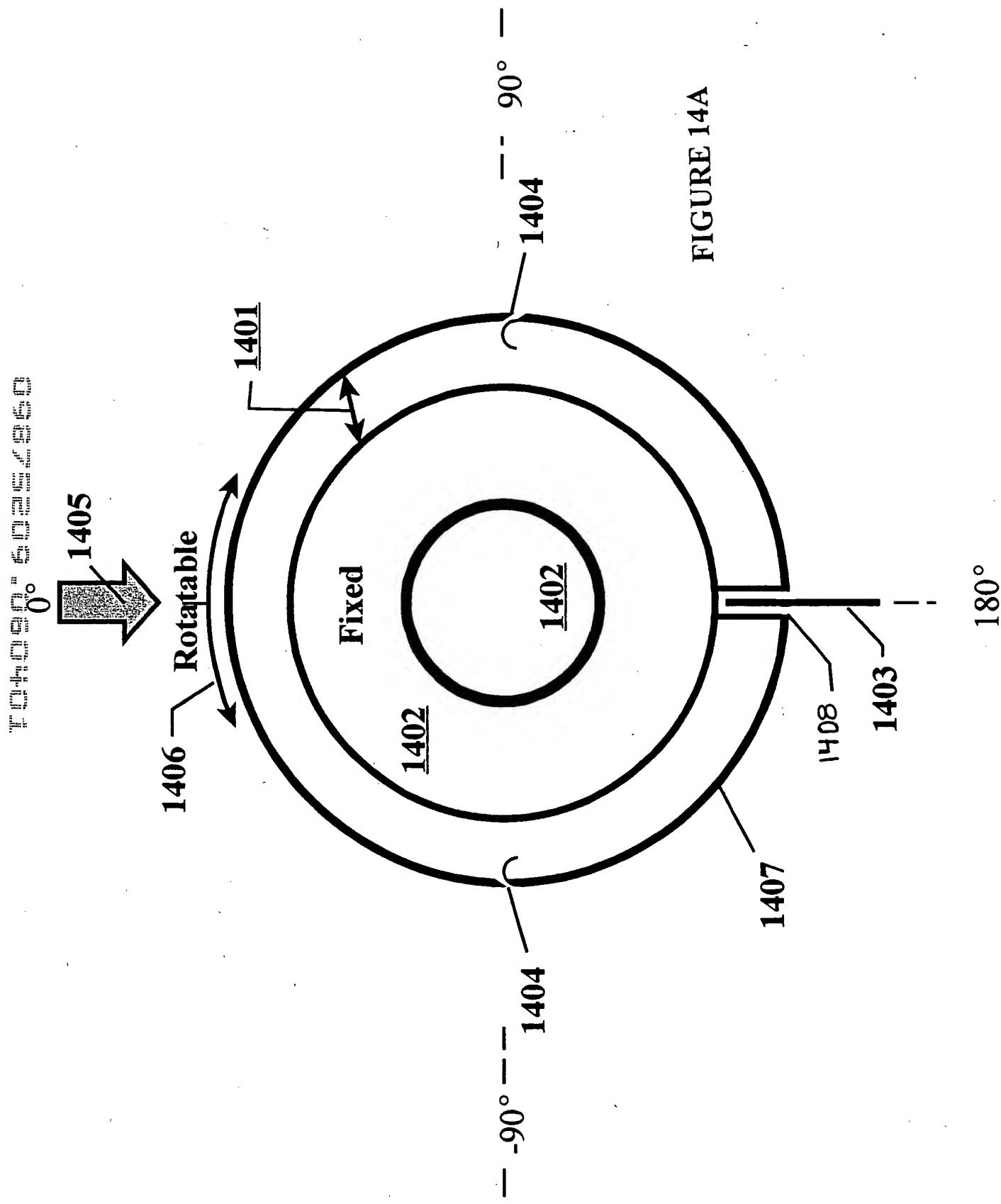


FIGURE 14A

FIGURE 14B

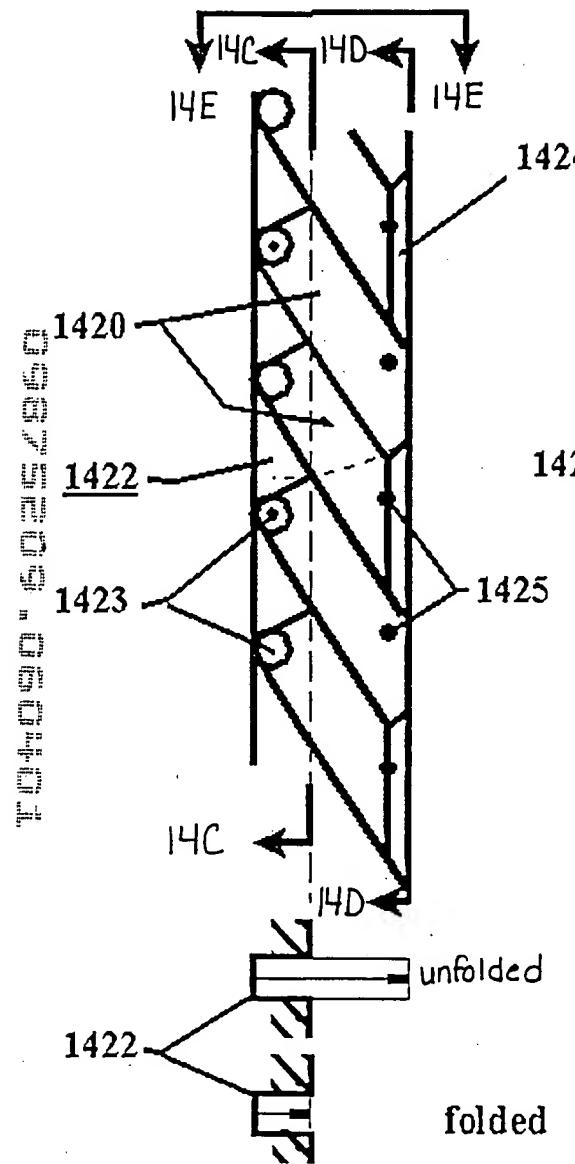


FIGURE 14C

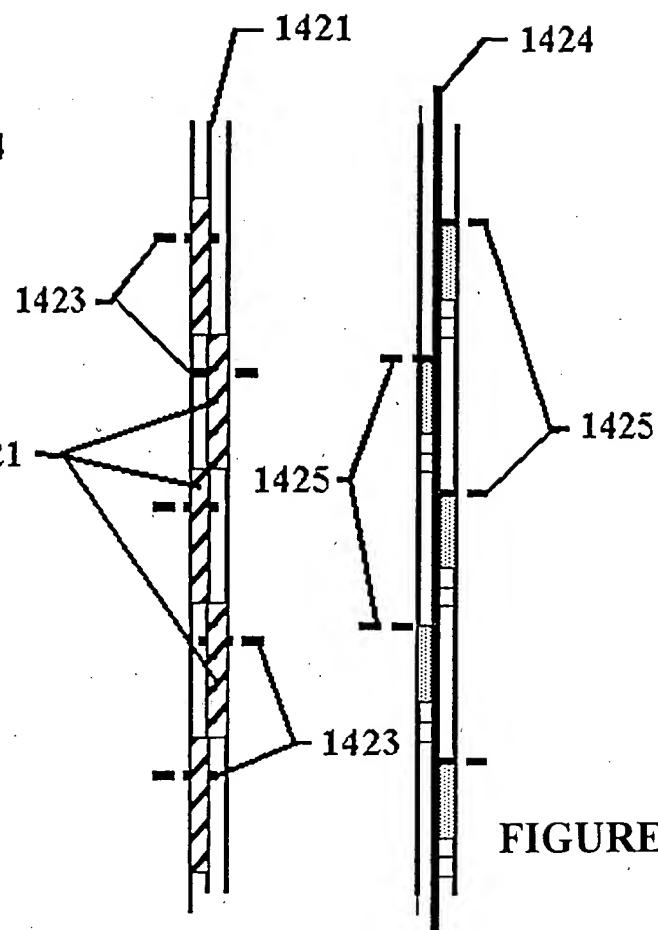


FIGURE 14D

**Folding Tail-Fin
for Riser BLC and
similar applications**

FIGURE 14E

00000000000000000000000000000000

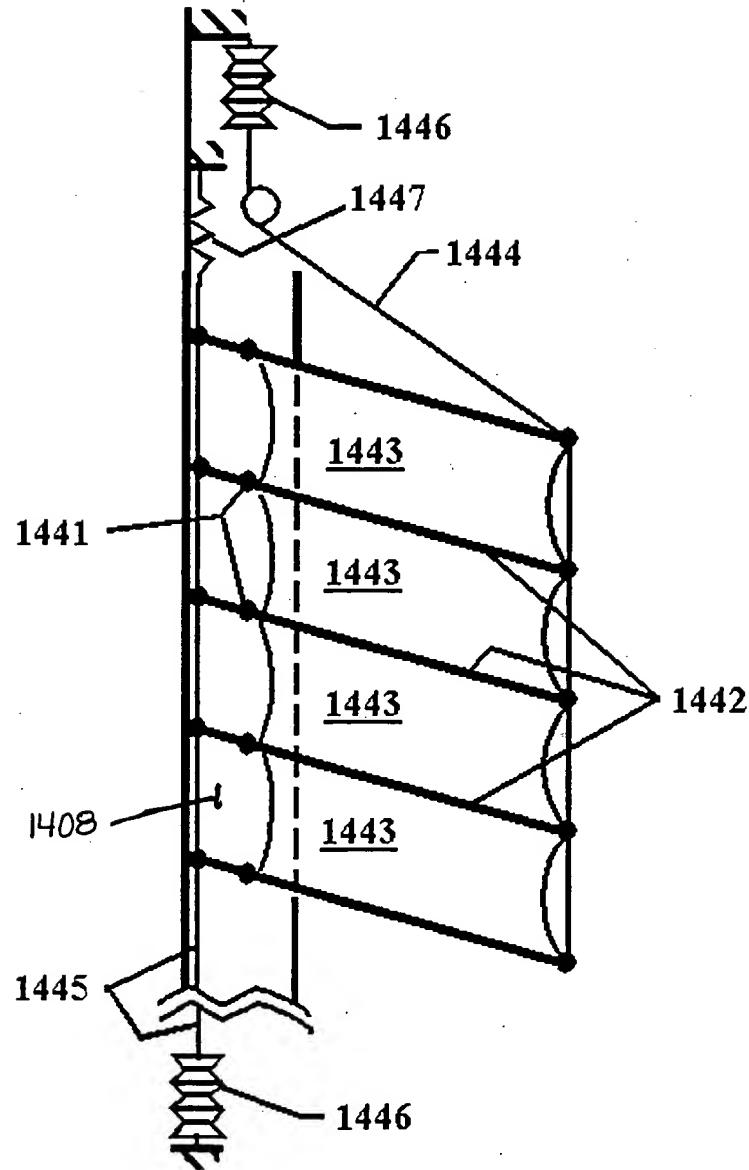


FIGURE 14F

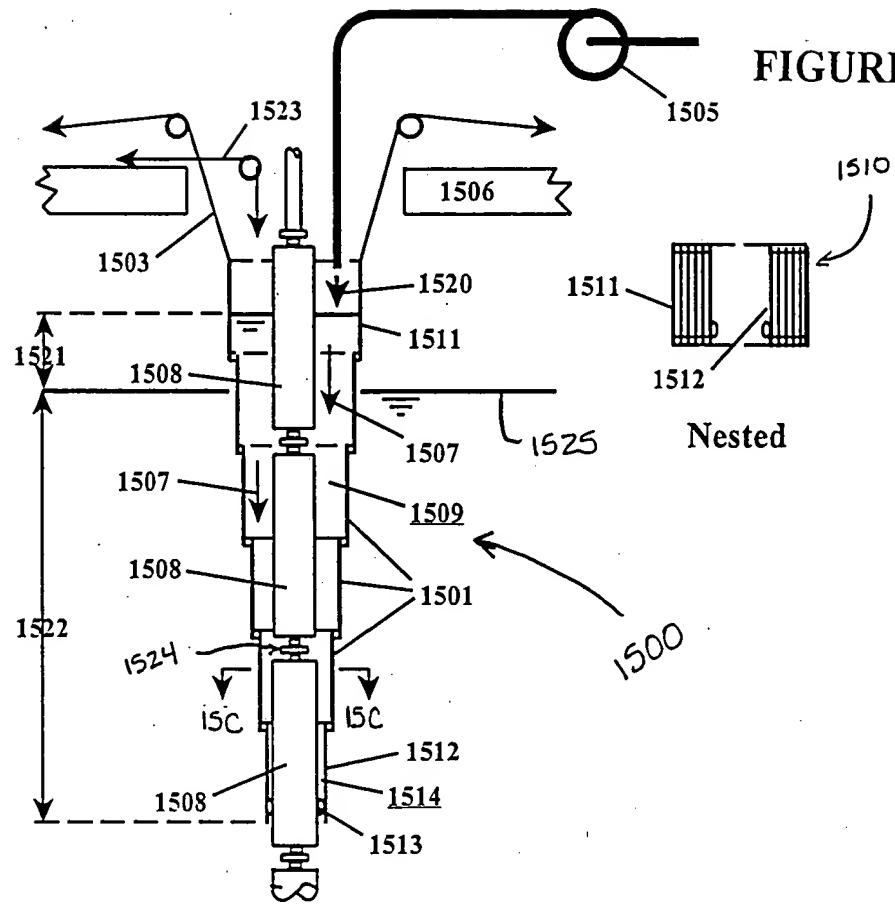


FIGURE 15B



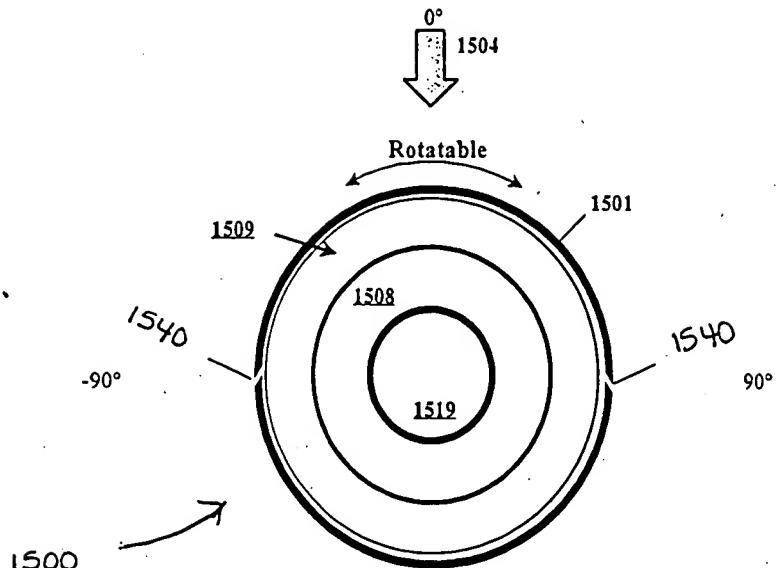


FIG. 15C Drilling Riser BLC, Telescoping Sheath Section

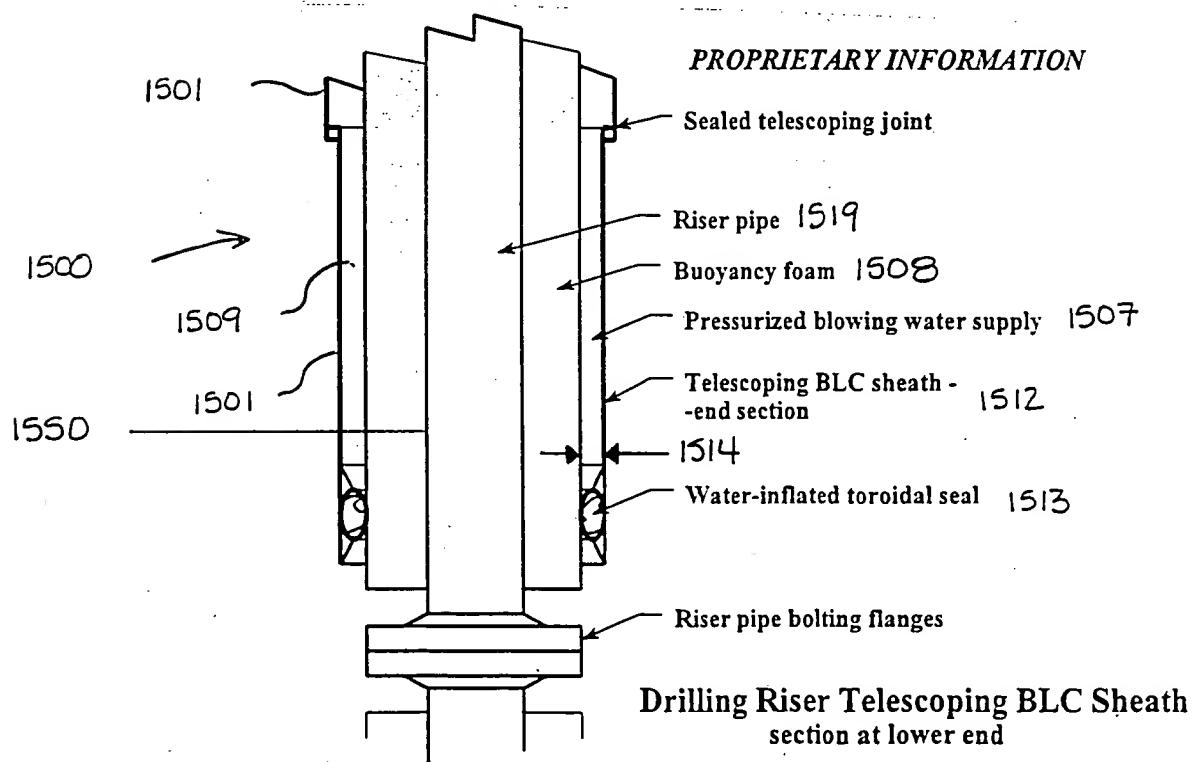


FIG. 15D Drilling Riser BLC, Telescoping Sheath Lower End

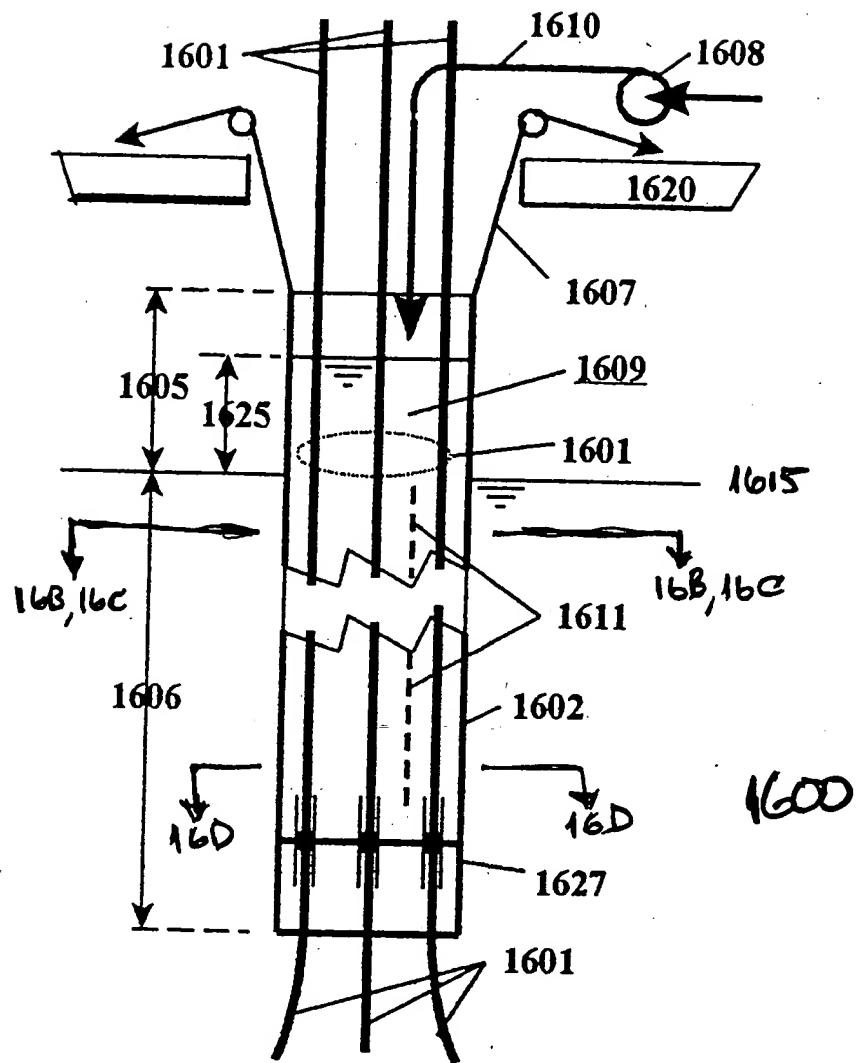


Figure 16a

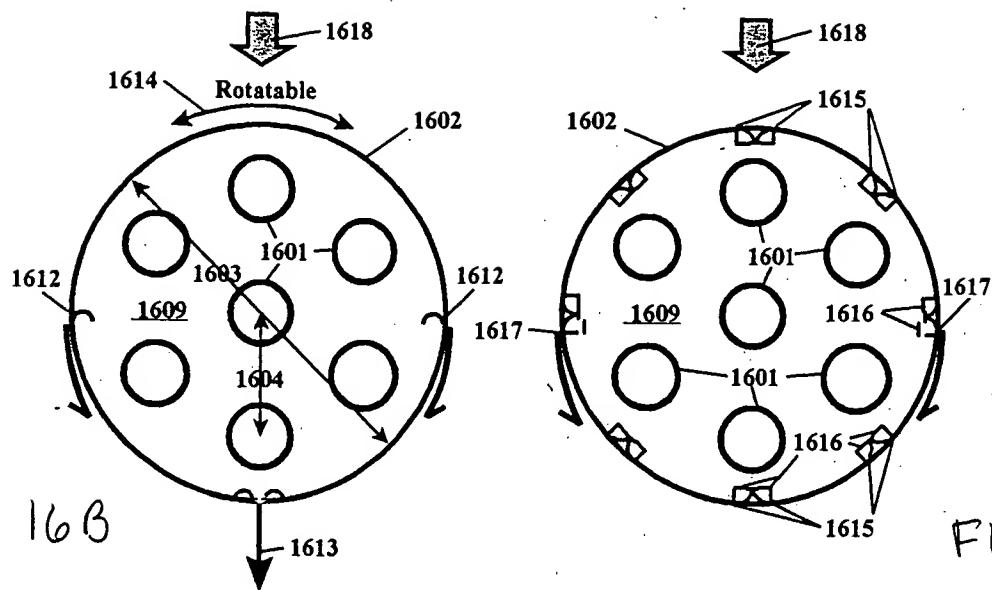


FIGURE 16B

FIGURE 16C

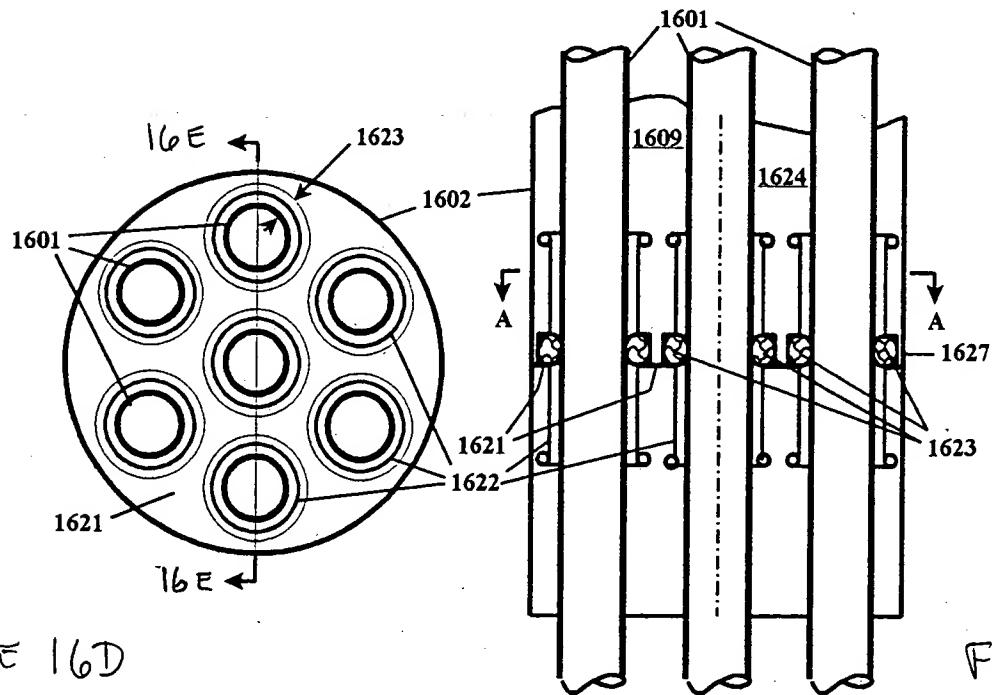


FIGURE 16D

FIGURE 16E